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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/705,493	11/10/2003	Eric Hamilton	112056-0120 5124	
24267 7590 08/09/2007 CESARI AND MCKENNA, LLP		EXAM	INER	
88 BLACK FA	LCON AVENUE		PARDO, THUY N	
BOSTON, MA 02210			ART UNIT	PAPER NUMBER
		•	2168	
•	•		MAIL DATE	DELIVERY MODE
			08/09/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
055	10/705,493	HAMILTON ET AL.				
Office Action Summary	Examiner	Art Unit				
	Thuy N. Pardo	2165				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MQNTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l. ely filed the mailing date of this communication. 0 (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 22 Ms	ay 2007.					
•	action is non-final.					
3) Since this application is in condition for allowan						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>6,7,12-50 and 52-79</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.	7) Claim(s) is/are objected to					
8) Claim(s) <u>6, 7, 12-50, 52-79</u> are subject to restri	ction and/or election requirement	•				
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P					
Paper No(s)/Mail Date	6) Other:					

Application/Control Number: 10/705,493 Page 2

Art Unit: 2165

Election/Restrictions

1. Applicant's Amendment file on May 22, 2007 in response to Examiner's Office Action has been reviewed. Claims 6, 7 and 12-79 are pending in the application. Claims 6, 12, 15, 19, 21, 27, 35, 36, 42, 50, 58, 59, 68, 69 and 77-79 are independent claims. Claims 1-5, 8-11 and 51 are canceled and claims 6, 12, 15, 19, 21, 27, 30-36, 41, 42, 50 and 58 are canceled, and claim 59-79 are added.

2. Restriction to one of the following inventions is required under 35 U.S.C. 121:

Group I: Claims 6-7, 19-20: drawn to a system and method for a write operation to a file by accessing entries associated with a current consistency point by indexing into flags arrays using a value calculated by performing a logical AND operation on a consistency point counter and value of 1.

Group II: Claims 12-18, 27-29, 36-40, 42-49, 58, 59-77, drawn to a system and method for a write operation to a file by using a consistency point counter to label modified data as belonging to current consistency point or to the next consistency point and capturing data modified for the current consistency point in the current consistency point and not capturing data belong to the next consistency point.

Group III: Claims 35 and 41, drawn to a system and method for a write operation to a file by differentiating the information associated with the write operation, modifying a flag and modifying a shadow index associated with the information.

Application/Control Number: 10/705,493

Art Unit: 2165

Group IV: Claims 21-26 and 30-34: drawn to a system and method for a write operation to a file by determining whether the buffer is dirty for a current consistency point and freeing if it is dirty for a next consistency point.

Group V: Claims 50, 52-57, 78 and 79: drawn to a system and method for a write operation to a file by determining a time for writing a current consistency point to persistent storage and time for capturing buffer data to a buffer.

The inventions are distinct, each from the other because of the following reasons:

Inventions Groups I, II, III, IV and V are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention Group I has separate utility such as accessing entries associated with a current consistency point by indexing into flags arrays using a value calculated by performing a logical AND operation on a consistency point counter and value of 1, and Group II has drawn to using a consistency point counter to label modified data as belonging to current consistency point or to the next consistency point and capturing data modified for the current consistency point in the current consistency point and not capturing data belong to the next consistency point, Group III has drawn to differentiating the information associated with the write operation, modifying a flag and modifying a shadow index associated with the information, Group IV has drawn to determining whether the buffer is dirty for a current consistency point and freeing if it is dirty for a next consistency point, and Group V drawn to determining a time for writing a current consistency point to persistent storage and time for capturing buffer data to a buffer. See M.P.E.P. § 806.05(d).

Application/Control Number: 10/705,493

Art Unit: 2165

Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Groups II, III, IV, or V; therefore, restriction for examination purposes as indicated is proper.

Page 4

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thuy N. Pardo whose telephone number is 571-272-4082. The examiner can normally be reached on Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Gaffin can be reached on 571-272-4146. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

August 04, 2007

hulfardo

THUY PARDO PRIMARY EXAMINER